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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/510,923	10/08/2004	Jeong-Seon Yoon	88-04	4889
23713	7590 11/07/2005		EXAM	INER
GREENLEE	WINNER AND SUL	OWENS, AMELIA A		
4875 PEARL	EAST CIRCLE			
SUITE 200			ART UNIT	PAPER NUMBER
BOULDER, (	CO 80301		1625	

DATE MAILED: 11/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
		YOON ET AL.			
Office Action Summary	10/510,923 Examiner	Art Unit			
•		·			
The MAILING DATE of this communicate	Amelia A. Owens	1625			
Period for Reply	·				
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAIL  - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica.  If NO period for reply is specified above, the maximum statutor.  Failure to reply within the set or extended period for reply will, the Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF THIS COMMUNIC CFR 1.136(a). In no event, however, may a restition. y period will apply and will expire SIX (6) MON' by statute, cause the application to become AB	CATION.  eply be timely filed  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed or	n	·			
	☐ This action is non-final.				
3) Since this application is in condition for	,—				
closed in accordance with the practice u	ınder <i>Ex parte Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.			
Disposition of Claims		·			
4) ⊠ Claim(s) 1-5 is/are pending in the application 4a) Of the above claim(s) is/are with 5) □ Claim(s) is/are allowed.  6) ⊠ Claim(s) 1-5 is/are rejected.  7) □ Claim(s) is/are objected to.  8) □ Claim(s) are subject to restriction.	vithdrawn from consideration.				
Application Papers					
9) The specification is objected to by the Example 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection Replacement drawing sheet(s) including the	☐ accepted or b)☐ objected to length of the drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).			
11) ☐ The oath or declaration is objected to by	the Examiner. Note the attached	Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-892)	948) Paper No(s	Summary (PTO-413) s)/Mail Date sformal Patent Application (PTO-152)			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)  6) Other:					

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### **DETAILED ACTION**

1. Claims 1-5 are pending. No drawings were filed. Foreign priority was claimed and the papers received.

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 at line 5, before 'wherein' has a comma that appears misplaced. Claim 1 contains the term 'derivative' which is ambiguous since derivative is referring to material "derived" from the named formula. Applicants' reagent or material or product 'is' the claimed formula. Therefore, it is recommended that <u>all</u> the terms 'derivative' be replaced with the term 'compound' to be consistent with the named formula.

Claim 2 is self conflicting because the claims are drawn to pharmaceutical compositions without a dosage limitation. Please note that a pharmaceutical composition by definition cannot be either ineffective or toxic. Therefore a pharmaceutical composition without any dosage is self conflicting. It is recommended that the term 'therapeutically effective amount' be incorporated into the claims.

Claims 2 and 4 use the term 'agent' which is ambiguous. It is suggested the term - compound- be used instead since applicants' are referring to a compound.

Claim 3 does not end in a period - (.). Please clarify/correct.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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3. Claims 4-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Konoshima et al CA 69:103778 that teach extracting roots belonging to the A.gigas family in order to obtain decursin. The preamble 'agent for enhancing cognition' is not given weight as ultimately applicants' are claiming a compound. An invention based upon the discovery of an unobvious use of an old compound/composition must be claimed in a method or process claim, not product claims.

### Certain Observations

4. Decursin is a known to be used to alleviate pain. See WO 01/52841 A, abstract and formula I (R2 =hydrogen and R1 =3-methyl-but-2-enoyl) @ page 2 lines 1-5.

Decursin has the following formula.

The claimed compounds have the following formula.

therein R1 and R2 each represent hydrogen or C1-4alkoxy,

Structurally similar compounds would be expected to have similar properties.

Compounds having the core structure depicted below have been shown to have analgesic activity. Thus, the claimed compounds would be expected to have analgesic activity.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amelia A. Owens whose telephone number is 571-272-0690. The examiner can normally be reached on Monday - Friday..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia J. Tsang can be reached on 571-272-0562. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Amelia A. Owens Primary Examiner Art Unit 1625